

HISTORIC AMERICAN ENGINEERING RECORD

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Roosevelt Power Canal and Diversion Dam
Roosevelt vicinity
Gila County
Arizona

HAER No. AZ-4

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NOTE: Photographs were obtained from the Salt River Project Archives, U. S Reclamation Service.

- AZ-4-1 TEMPORARY POWER HOUSE AT ROOSEVELT DAM. TRAMWAY LINES CAN BE SEEN AT TOP OF PHOTOGRAPH
Photographer: Walter J. Lubken, May 10, 1906
- AZ-4-2 LOOKING DOWN THE LINED POWER CANAL AS IT WINDS ITS WAY TOWARD THE CEMENT MILL
Photographer: Walter J. Lubken, November 19, 1907
- AZ-4-3 UPPER END, OR SOUTH PORTAL, OF THE WEHRLI TUNNEL ON THE POWER CANAL
Photographer: Walter J. Lubken, April 1, 1905
- AZ-4-4 APACHE INDIAN LABORER WITH TEAM AND SCRAPER WORKING ON THE POWER CANAL LINE FOUR MILES ABOVE LIVINGSTONE, ARIZONA
Photographer: Walter J. Lubken, June 14, 1906
- AZ-4-5 SCRAPERS AT WORK ON THE POWER CANAL, TWO MILES EAST OF LIVINGSTONE, ARIZONA
Photographer: Walter J. Lubken, August 1, 1904
- AZ-4-6 A COMPLETED PORTION OF THE POWER CANAL
Photographer: Walter J. Lubken, March 21, 1905
- AZ-4-7 PRESSURE CONDUIT ACROSS SCHOOL HOUSE WASH ON THE POWER CANAL
Photographer: Walter J. Lubken, February 21, 1906
- AZ-4-8 A COMPLETED CULVERT ON THE POWER CANAL LOCATED ABOUT FOUR MILES EAST OF ROOSEVELT
Photographer: Walter J. Lubken, March 29, 1905
- AZ-4-9 LOOKING EAST UP THE POWER CANAL SHOWING A WOODEN FLUME, CUT AND COVER AND TUNNEL NO. 10
Photographer: Walter J. Lubken, February 21, 1906
- AZ-4-10 WHITNEY'S FLUME AND VIEW OF THE CONFLUENCE OF TONTO CREEK AND THE SALT RIVER. AREA SHOWN IS PRESENTLY UNDER WATER. TONTO CREEK FLOWS FROM BACKGROUND CENTER TO LEFT, AND THE SALT RIVER FLOWS FROM RIGHT TO LEFT IN THE PHOTO. DAM IS LOCATED OFF THE PHOTO TO THE LEFT
Photographer: Walter J. Lubken, March 3, 1906

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- AZ-4-11 SLUICeway AND OVERFLOW WEIR ON THE POWER CANAL
Photograph: Walter J. Lubken, February 21, 1906
- AZ-4-12 SLUICE GATE ON THE POWER CANAL
Photograph: Walter J. Lubken, February 21, 1906
- AZ-4-13 THE PINTO SETTLING BASIN
Photographer: Walter J. Lubken, May 1, 1906
- AZ-4-14 DITCHRIDER LUTHER JACKSON WITH FAMILY AT PINTO CREEK
Photographer: unknown, March 1909
- AZ-4-15 FRONT VIEW OF "THE ALLIGATOR"
Photographer: C. R. Weitze, September 23, 1905
- AZ-4-16 PINTO PRESSURE PIPE UNDER CONSTRUCTION
Photographer: J. Morgan Miller, July 17, 1906
- AZ-4-17 DETAILED VIEW OF THE ENTRANCE OF THE COTTON WOOD PRESSURE PIPE
Photographer: Walter J. Lubken, March 9, 1906
- AZ-4-18 GATES AT THE END OF THE COTTON PRESSURE PIPE
Photographer: unknown, February 23, 1906
- AZ-4-19 THE SALT RIVER DESTROYING ITS BANKS AT THE WEHRLI FARM
Photographer: J. Morgan Miller, March 16, 1906
- AZ-4-20 DIVERSION DAM SITE IN FEBRUARY 1904 BEFORE WORK WAS BEGUN
Photographer: unknown, February 1904
- AZ-4-21 THE WHITNEY CONSTRUCTION CAMP AT THE DIVERSION DAM, FACING SOUTH.
WOOD BURNING PLANT AT RIGHT, INTAKE GATES AT CENTER LEFT.
Photographer: Walter J. Lubken, June 13, 1906
- AZ-4-22 THE DIVERSION DAM UNDER CONSTRUCTION AT THE INTAKE OF THE SALT RIVER
POWER CANAL, SHOWING COMPLETED APRON OF DAM IN MAIN CHANNEL OF RIVER
BED.
Photographer: Walter J. Lubken, October 17, 1906
- AZ-4-23 INTAKE DIVERSION DAM UNDER CONSTRUCTION, FACING NORTHWEST AND
DOWNSTREAM
Photographer: Walter J. Lubken, September 17, 1906
- AZ-4-24 INTAKE GATES AT THE POWER CANAL
Photographer: C. R. Weitze, November 1, 1905

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- AZ-4-25 LOOKING UP THE SALT RIVER FROM THE INTAKE GATES OF THE SALT RIVER
POWER CANAL, SHOWING HEADWORKS OF POWER CANAL
Photographer: Walter J. Lubken, October 17, 1906
- AZ-4-26 THE COMPLETED INTAKE DIVERSION DAM, FACING NORTH
Photographer: Walter J. Lubken, November 23, 1906
- AZ-4-27 BREAK IN COTTONWOOD PRESSURE PIPE
Photographer: J. Morgan Miller
- AZ-4-28 TYPICAL PORTION OF OGEE SPILLWAY OF THE RECONSTRUCTED DIVERSION DAM
Photographer: unknown, January 29, 1937
- AZ-4-29 THE DIVERSION DAM, FACING SOUTH, SHOWING THE INTAKE OPERATING HOUSE
Photographer: Mark Durben, 1984
- AZ-4-30 THE DIVERSION DAM, FACING NORTH, SHOWING THE "U" SHAPED NORTH ABUTMENT
Photographer: Mark Durben, 1984
- AZ-4-31 THE SLUICE EXIT AND OPERATING HOUSE AT THE SOUTH SIDE OF THE
DIVERSION DAM
Photographer: Mark Durben, 1984
- AZ-4-32 THE OPERATING MECHANISMS OF THE INTAKE GATES AT THE DIVERSION DAM.
See photo No. AZ-4-24
Photographer: Mark Durben, 1984
- AZ-4-33 A 60-INCH CONCRETE DRAINAGE FLUME AT MILE 1D. See Appendix I.
Photographer: Mark Durben, 1984
- AZ-4-34 LOOKING UP THE POWER CANAL FROM MILE 1D
Photographer: Mark Durben, 1984
- AZ-4-35 LOOKING DOWN THE POWER CANAL FROM MILE 1D
Photographer: Mark Durben, 1984
- AZ-4-36 UPSTREAM SIDE OF THE 108-FOOT CUT AND COVER AT LEE WASH
Photographer: Mark Durben, 1984
- AZ-4-37 FACING DOWNSTREAM AT LEE WASH. SALT RIVER CAN BE SEEN AT CENTER
RIGHT
Photographer: Mark Durben, 1984
- AZ-4-38 LOOKING AT LEE WASH FROM THE SALT RICER
Photographer: Mark Durben, 1984

- AZ-4-39 DOWNSTREAM SIDE OF THE 108-FOOT CUT AND COVER AT LEE WASH
Photographer: Mark Durben, 1984
- AZ-4-40 A CONCRETE DRAINAGE FLUME ALONG THE CANAL LINE AT MILE 2E
Photographer: Mark Durben, 1984
- AZ-4-41 A TYPICAL OVERFLOW WEIR WITHOUT FLASH BOARDS. THE SALT RIVER CAN BE
SEEN IN THE BACKGROUND
Photographer: Mark Durben, 1984
- AZ-4-42 THE PINTO SETTLING BASIN. THE SIPHON INTAKE GATES CAN BE SEEN AT
CENTER RIGHT AND THE SLUICE GATES ARE AT THE CENTER. THE POWER CANAL
ENTERS THE BASIN FROM THE LEFT. See Photo No. AZ-4-13.
Photographer: Mark Durben, 1984
- AZ-4-43 THE UPSTREAM SIDE OF THE PINTO SETTLING BASIN SLUICE GATES
Photographer: Mark Durben, 1984
- AZ-4-44 THE DOWNSTREAM SIDE OF THE PINTO SETTLING BASIN SLUICE GATES
Photographer: Mark Durben, 1984
- AZ-4-45 THE PINTO SETTLING BASIN INTAKE GATES
Photographer: Mark Durben, 1984
- AZ-4-46 LOOKING ACROSS PINTO CREEK WITH THE INTAKE GATES LOCATED AT THE LOWER
LEFT CORNER
Photographer: Mark Durben, 1984
- AZ-4-47 THE PINTO PRESSURE PIPE EXIT GATES. NOTICE AT THE FAR LEFT,
"USRS 1905"
Photographer: Mark Durben, 1984
- AZ-4-48 THE PINTO PRESSURE EXIT PIPES
Photographer: Mark Durben, 1984
- AZ-4-49 THE COTTONWOOD INTAKE WITH SLUICE GATES. See Photo No. AZ-4-17
Photographer: Mark Durben, 1984
- AZ-4-50 THE REMAINS OF THE COTTON EXIT GATES
Photographer: Mark Durben, 1984
- AZ-4-51 FRED TEICHMAN'S ROTATING SCREEN AT TERMINUS OF THE POWER CANAL.
SETTLING BASIN IS LOCATED IN BOTTOM LEFT OF PHOTO. UPSTREAM SIDE OF
ROOSEVELT DAM IS VISIBLE
Photographer: Mark Durben, 1984

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AZ-4-52 THE DOWNSTREAM FACE OF ROOSEVELT DAM. THE ROOSEVELT POWER HOUSE IS LOCATED AT THE CENTER OF THE PHOTO WITH THE TRANSFORMER HOUSE LOCATED AT THE RIGHT. THE NORTH SPILLWAY IS AT THE FAR LEFT AND SOUTH SPILLWAY AT THE FAR RIGHT
Photographer: Mark Durben, 1984

The following are photocopies of drawings.

- AZ-4-53 LAYOUT OF POWER CANAL LINE, LIST OF STRUCTURES
Courtesy of Reclamation Service, Salt River Project, Arizona
- AZ-4-54 PLAT OF POWER CANAL NO. 1, SHOWING LOCATION OF STRUCTURES, ETC.
Courtesy of the Dept. of the Interior, U. S. Reclamation Service, Salt River Project, Arizona
- AZ-4-55 CROSS SECTIONS FOR POWER CANAL,
Courtesy of U.S.G.S., Reclamation Service, Salt River Reservoir Project
- AZ-4-56 CROSS SECTIONS OF CANAL AND TUNNELS. POWER CANAL, SALT RIVER RESERVOIR
Courtesy of U.S.G.S., Reclamation Service
- AZ-4-57 TUNNEL SECTIONS FOR POWER CANAL
Courtesy of U.S.C.S., Reclamation Service, Salt River Reservoir Project
- AZ-4-58 STAVE AND BINDER FLUMES
Courtesy of U.S.C.S., Reclamation Service, Salt River Reservoir Project
- AZ-4-59 CONCRETE DRAINAGE FLUMES, POWER CANAL.
Courtesy of U. S. Reclamation Service, Salt River Project
- AZ-4-60 ROOSEVELT POWER CANAL, FLUME AT STA. 973
Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River Project, Arizona
- AZ-4-61 DETAILS OF FLUME CONSTRUCTION, SECOND ALTERNATIVE, SALT RIVER RESERVOIR, ARIZONA
- AZ-4-62 STANDARD OVERFLOW WEIR FOR POWER CANAL
Courtesy of U.S.C.S., Reclamation Service, Salt River Project
- AZ-4-63 STANDARD DIVERTING SLUICE FOR POWER CANAL
Courtesy of U.S.G.S., Reclamation Service, Salt River Project

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- AZ-4-64 STANDARD CAST IRON SLUICE GATE, POWER CANAL
Courtesy of U.S.G.S., Reclamation Service, Salt River Project
- AZ-4-65 BRIDGE OVER POWER CANAL AT STATION 369 - NEAR HOCKER WASH
- AZ-4-66 PROPOSED BASIN AND INTAKE FOR PINTO PRESSURE PIPE, POWER CANAL, SALT
RIVER RESERVOIR, ARIZONA
- AZ-4-67 ENTRANCE TO PINTO PRESSURE PIPES, DETAILS
Courtesy of U.S.G.S., Reclamation Service, Salt River Project
- AZ-4-68 NEW SETTLING BASIN AT CANAL #1 - ROOSEVELT
Courtesy of U.S.G.S., Salt River Project
- AZ-4-69 LAYOUT AT TERMINUS OF POWER CANAL
Courtesy of U.S.G.S., Reclamation Service, Salt River Project
- AZ-4-70 ENTRANCE TO PENSTOCK TUNNEL, POWER CANAL
Courtesy of U.S.G.S., Reclamation Service, Salt River Project
- AZ-4-71 POWER CANAL HEADWORKS
Courtesy of U.S.C.S., Reclamation Service, Salt River Reservoir,
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- AZ-4-72 ARRANGEMENT OF SLUICE GATES AND HOISTS, DIVERSION DAM - POWER CANAL
Courtesy of U.S.G.S., Reclamation Service, Salt River Project
- AZ-4-73 GENERAL ASSEMBLY OF MECHANISM, FOR OPERATING DIVERSION DAM SLUICE
GATES
Courtesy of U.S.R.S., Salt River Project
- AZ-4-74 GATE HOUSE AT THE DIVERSION DAM
Courtesy of U.S.G.S., Reclamation Service, Salt River Project
- AZ-4-75 HOUSE FOR GATE KEEPER, DIVERSION DAM
Courtesy of U.S.G.S., Reclamation Service
- AZ-4-76 CONDENSED PROFILE OF ROOSEVELT POWER CANAL
Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River
Project, Arizona
- AZ-4-77 ROOSEVELT POWER CANAL LOCATION MAP, WORK TO BE DONE BY CONTRACT
Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River
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- AZ-4-78 POWER CANAL DIVERSION DAM, EXISTING STRUCTURE
Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River
Project
- AZ-4-79 ROOSEVELT POWER CANAL, REHABILITATION, CROSS DRAINAGE FLUME -
LONGITUDINAL SECTIONS
Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River
Project, Arizona
- AZ-4-80 ROOSEVELT POWER CANAL, REHABILITATION, CROSS DRAINAGE FLUME - FLUME
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Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River
Project
- AZ-4-81 ROOSEVELT POWER CANAL, REHABILITATION, CROSS DRAINAGE FLUMES - CENTER
BENT DETAILS
Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River
Project, Arizona
- AZ-4-82 ROOSEVELT POWER CANAL, SUGGESTED ARRANGEMENT FOR ELECTRICAL OPERATION
OF SLUICE GATES AND CANAL INTAKE GATES AT DIVERSION DAM
Courtesy of Dept. of the Interior, Bureau of Reclamation, Salt River
Project, Arizona